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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,107	10/14/2005	Kengo Nagata	6268-000010/US/NP	2388
27572 HARNESS, D	7590 02/15/2007 ICKEY & PIERCE, P.L.O	EXAMINER		
P.O. BOX 828			. TRINH, SONNY	
BLOOMFIELD HILLS, MI 48303		·	ART UNIT	PAPER NUMBER
			2618	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	, MAIL DATE	DELIVERY MODE	
3 MONTHS		02/15/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.	Applicant(s)			
		10/553,107	NAGATA ET AL.			
		Examiner	Art Unit			
		Sonny TRINH	2618			
The MAILING I	DATE of this communication app	pears on the cover sheet with the	correspondence address			
WHICHEVER IS LON - Extensions of time may be after SIX (6) MONTHS from - If NO period for reply is spe - Failure to reply within the se Any reply received by the C	NGER, FROM THE MAILING DA available under the provisions of 37 CFR 1.13 in the mailing date of this communication. scified above, the maximum statutory period vertion extended period for reply will, by statute.	Y IS SET TO EXPIRE 3 MONTHATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be the will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON to date of this communication, even if timely file.	DN. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1) Responsive to	communication(s) filed on 14 O	ctober 2005.				
2a)☐ This action is F	· · · · · · · · · · · · · · · · · · ·					
3) Since this appli	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accor	dance with the practice under <i>E</i>	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.			
Disposition of Claims						
4a) Of the above 5)⊠ Claim(s) <u>2, 6 3/</u> 6)⊠ Claim(s) <u>1 and</u> 7)□ Claim(s) <u>3/1, 4/</u>	are pending in the application. e claim(s) is/are withdrav <u>/2, 4/2, 7/6,8/6</u> is/are allowed. <u>5</u> is/are rejected. <u>/1, 7/5, 8/5</u> is/are objected to. are subject to restriction and/or		,			
Application Papers						
10)⊠ The drawing(s) f Applicant may no	ot request that any objection to the	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
		ion is required if the drawing(s) is ol aminer. Note the attached Office				
Priority under 35 U.S.C.						
12) Acknowledgmer a) All b) Sor 1. Certified 2. Certified 3. Copies of application	nt is made of a claim for foreign me * c) None of: copies of the priority documents copies of the priority documents of the certified copies of the prior on from the International Bureau	s have been received in Applicativity documents have been receiv	tion No ved in this National Stage			
Attachment(s) 1) Notice of References Cite 2) Notice of Draftsperson's 8 3) Information Disclosure St Paper No(s)/Mail Date	Patent Drawing Review (PTO-948) atement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Date			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moulsley et al. (hereinafter "Moulsley"; U.S. Patent Application Publication number 2002/0159431) in view of Sonetaka (U.S. Patent number 6,591,107).

Regarding claim 1, Moulsley discloses a wireless packet communication method for transmitting a plurality of wireless packets simultaneously by using multiple wireless channels (paragraphs [009] – [0015], claims 1-2, 9-10, 14). Moulsley does not disclose the determination of an idle channel by carrier sense and setting a mandatory channel that is always used for transmission; and transmitting the wireless packets by using a wireless channel/wireless channels that includes/include the mandatory channel, only when the mandatory channel is idle.

In an analogous art, Sonetaka teaches a method of assigning service channel (abstract). Sonetaka further teaches a method for assigning channel by using mandatory channel that is always used for transmission when there is no channel to be assigned to the traffic having a predetermined service rank (abstract, claims 1, 3, 5-6).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to incorporate the channel assignment, as taught by

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Sonetaka, to the system of Moulsley. The motivation for doing so to make it possible to assign radio-signal channel to traffic having a high service rank, even if radio-signal channels are all occupied by traffics each having a low service rank.

Claim 5 is the apparatus claim necessary for performing the method steps of claim 1 and is therefore rejected for the same reasons.

Allowable Subject Matter

2. Claims 3/1, 4/1, 7/5, 8/5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding **claim 3/1**, the applied references fail to disclose or render obvious the claimed limitations, specifically wherein the method characterized in that the plurality of wireless packets transmitted simultaneously are set to have a same or equivalent packet time length that corresponds to a packet size or a transmission time.

Regarding **claim 4/1**, the applied references fail to disclose or render obvious the claimed limitations, specifically wherein the method characterized by further comprising simultaneously transmitting Wireless packets selectively using the multiple wireless channels or the MIMO in accordance with a number of pieces of data or a number of MIMOs that depends on a channel condition.

Claims 7/5 and 8/5 are the apparatus claims as opposed to the method claim of claims 3/1 and 4/1 and are therefore allowed.

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3. Claims 2, 3/2, 4/2, 6, 7/6, 8/6 are allowed.

Regarding claim 2, the applied references fail to disclose or render obvious the claimed limitations of a method for transmitting a plurality of wireless packets simultaneously by using multiple wireless channels determined to be idle by carrier sense, a single wireless channel determined to be idle and MIMO, or the multiple wireless channels and the MIMO, the method characterized by comprising: distinguishing an STA A from an STA B, the STA A for which a mandatory channel is set, the STA B for which no mandatory channel is set, the mandatory channel being always used for transmission; and when wireless packets are addressed to said STA A, transmitting the wireless packets to said STA A by using a wireless channel/wireless channels that includes/include the mandatory channel, only when the mandatory channel is idle; and when wireless packets are addressed to said STA B, transmitting the wireless packets to said STA B by using idle wireless channel(s).

Claims 3/2, and 4/2 are allowed by virtue of their dependency on claim 2.

Claims 6, 7/6 and 8/6 are the corresponding apparatus claims for performing the method steps of claims 2, 3/2, 4/2 (respectively) and are allowed for the same reasons.

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CONCLUSION

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sonny TRINH whose telephone number is 571-272-

7927. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward URBAN can be reached on 571-272-7899. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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2/8/07